

lectures/10/src/

```
1: #
2: # Makefile
3: #
4: # Computer Science 50
5: # Week 10
6: #
7:
8: default:
9:     gcc -S -c hello.c
```

```
1: /*****
2:  * hello.c
3:  *
4:  * Computer Science 50
5:  * David J. Malan
6:  *
7:  * Says hello to the world.
8:  *****/
9:
10: #include <stdio.h>
11:
12: int
13: main(int argc, char *argv[])
14: {
15:     printf("hello, world\n");
16: }
```

```
1:      .file   "hello.c"
2:      .section      .rodata
3: .LC0:
4:      .string "hello, world\n"
5:      .text
6: .globl main
7:      .type   main, @function
8: main:
9:      pushl   %ebp
10:     movl    %esp, %ebp
11:     subl    $8, %esp
12:     andl    $-16, %esp
13:     movl    $0, %eax
14:     addl    $15, %eax
15:     addl    $15, %eax
16:     shrl    $4, %eax
17:     sall    $4, %eax
18:     subl    %eax, %esp
19:     subl    $12, %esp
20:     pushl   $.LC0
21:     call    printf
22:     addl    $16, %esp
23:     leave
24:     ret
25:     .size   main, .-main
26:     .section      .note.GNU-stack,"",@progbits
27:     .ident   "GCC: (GNU) 3.4.6 20060404 (Red Hat 3.4.6-10)"
```